

26. (New) The substantially purified nucleic acid molecule of claim 2, wherein said enzyme is a soy NDP-kinase, and wherein said nucleic acid sequence is SEQ ID NO: 2681.

B2  
canceled

27. (New) The substantially purified nucleic acid molecule of claim 2, wherein said enzyme is a soy UDP-glucose pyrophosphorylase, and wherein said nucleic acid sequence is SEQ ID NO: 2753.

#### REMARKS

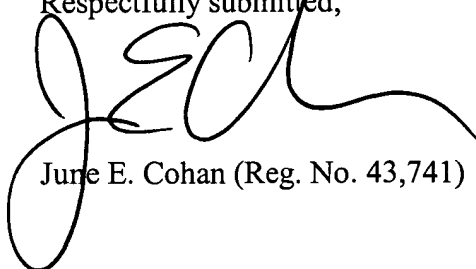
Following entry of this amendment, claims 2 and 7-27 are pending. Claim 1 has been cancelled without prejudice or disclaimer to the underlying subject matter. Claim 2 has been amended to make it independent, and new claims 18-27 have been added. Support for these amendments may be found in the original claims, the specification, and the sequence listing, e.g., at specification page 24, line 7 through page 29, line 9; page 75, line 4 through page 77, line 14; and Table A. No new matter is added by these amendments.

In view of the foregoing amendments, it is respectfully submitted that the present application is now in condition for allowance, and notice of such is respectfully requested.

In the event that extensions of time beyond those petitioned for herewith are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned. Applicants do not believe any additional fees other than those provided for in the accompanying documents are due in conjunction with this filing. However, if any fees under 37 C.F.R. 1.16 or 1.17 are required in the present application, including any fees for extensions of time, then the Commissioner is hereby authorized to charge such fees to Arnold & Porter Deposit Account No. 50-2387, referencing matter number 16517.228. A duplicate copy of this letter is enclosed.

The Examiner is encouraged to contact the undersigned should any additional information be necessary for allowance.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'JEC', with a large loop at the end.

June E. Cohan (Reg. No. 43,741)

Date: December 16, 2002

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**Marked up version of the claims**

**In the claims:**

2. (Twice Amended) A [The] substantially purified nucleic acid molecule **that encodes a maize or a soybean enzyme or fragment of said enzyme,** [according to claim 1,] wherein said nucleic acid molecule comprises a nucleic acid sequence selected from the group consisting of SEQ ID NOs: 11, 446, 935, 1108, 2042, 2166, 2252, 2644, 2681, and 2753, wherein said [nucleic acid sequence encodes at least a fragment of a maize or soybean] **enzyme is selected from the group consisting of** triose phosphate isomerase<sub>1</sub>[;] vacuolar H<sup>+</sup> translocating-pyrophosphatase<sub>1</sub>[;] sucrose synthase<sub>1</sub>[;] hexokinase<sub>1</sub>[;] fructose 1,6-bisphosphate aldolase<sub>1</sub>[;] fructose 6-phosphate 2-kinase<sub>1</sub>[;] invertase<sub>1</sub>[;] fructokinase<sub>1</sub>[;] NDP-kinase<sub>1</sub>[;] and UDP-glucose pyrophosphorylase[, respectfully].